UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

21302

7590

09/30/2010

KNOBLE, YOSHIDA & DUNLEAVY EIGHT PENN CENTER SUITE 1350, 1628 JOHN F KENNEDY BLVD PHILADELPHIA, PA 19103

EXAMINER				
PENG, BO				
ART UNIT	PAPER NUMBER			
1648				

DATE MAILED: 09/30/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750.184	12/31/2003	Richard L. Franklin	ARC-1001USCON1	4994

TITLE OF INVENTION: REMOVING DENTAL PLAQUE WITH KRILL ENZYMES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/30/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

appropriate. All further	correspondence includir ed below or directed oth	ig the Patent, advance of	rders and notification of n	naintenance fees wi	Il be mailed to the current	should be completed where t correspondence address as parate "FEE ADDRESS" for
	ENCE ADDRESS (Note: Use BI	ock 1 for any change of address)	Note Fee( pape have	e: A certificate of n s) Transmittal. This ers. Each additional	nailing can only be used for certificate cannot be used paper, such as an assignment of mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
EIGHT PENN ( SUITE 1350, 16	28 JOHN F KENNI	EAVY	I he	Certi	ificate of Mailing or Trans	
PHILADELPHI	A, PA 19103					(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,184	12/31/2003	DI ACME WIEW IZDII	Richard L. Franklin		ARC-1001USCON1	4994
TITLE OF INVENTION	: REMOVING DENTAI	L PLAQUE WITH KRIL	L ENZYMES			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE	FEE TOTAL FEE(S) DUE	E DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/30/2010
EXAM	IINER	ART UNIT	CLASS-SUBCLASS			
PENC	G, BO	1648	435-050000			
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer		2. For printing on the patent front page, list  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is				
Number is required.			listed, no name will be	printed.	<u> </u>	
	less an assignee is ident h in 37 CFR 3.11. Comp		THE PATENT (print or type data will appear on the pa T a substitute for filing an (B) RESIDENCE: (CITY	ntent. If an assignerassignment.		document has been filed for
Please check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent): $\Box$	Individual 🗖 Cor	poration or other private gr	oup entity 🚨 Government
	are submitted:  No small entity discount p # of Copies	permitted)	☐ A check is enclosed. ☐ Payment by credit care ☐ The Director is hereby	d. Form PTO-2038	y previously paid issue feet is attached. te the required fee(s), any decimal (enclose a	eficiency, or credit any
5. Change in Entity Sta	tus (from status indicated as SMALL ENTITY statu		Dh. Annlinentinus lan	non alaimin a CMATI	I ENTITY status Co. 27.6	NED 1 27(-\/2\
NOTE: The Issue Fee an	d Publication Fee (if requ	uired) will not be accepte	d from anyone other than th	-	L ENTITY status. See 37 C tered attorney or agent; or t	he assignee or other party in
interest as shown by the	records of the United Sta	tes Patent and Trademark	Office.			
Authorized Signature				Date		
Typed or printed nam	e			Registration No	)	
This collection of inform an application. Confiden submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 223	tiality is governed by 35 d application form to the ions for reducing this but riginia 22313-1450. DC	FR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary den, should be sent to the NOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est r depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by th imated to take 12 m idual case. Any con r, U.S. Patent and T D THIS ADDRESS.	e public which is to file (an inutes to complete, includi nments on the amount of ti rademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and time you require to complete out the following of Commerce, P.O. for Patents, P.O. Box 1450,

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FILING DATE FIRST NAMED INVENTOR		CONFIRMATION NO.
10/750,184 12/31/2003		Richard L. Franklin	ARC-1001USCON1 4994	
21302 75	590 09/30/2010		EXAM	INER
KNOBLE, YOSI	HIDA & DUNLEAV	PENC	F, BO	
EIGHT PENN CE		ART UNIT	PAPER NUMBER	
SUITE 1350, 1628 JOHN F KENNEDY BLVD PHILADELPHIA, PA 19103			1648 DATE MAILED: 09/30/201	0

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 51 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 51 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/750,184	FRANKLIN, RICHARD L.
Notice of Allowability	Examiner	Art Unit
	BO PENG	1648
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this a or other appropriate communication IGHTS. This application is subject	application. If not included on will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>9/1/2010</u> .		
2. ☑ The allowed claim(s) is/are <u>142-153 and 157-164</u> .		
3.  Acknowledgment is made of a claim for foreign priority unas)  All b)  Some* c)  None of the:  1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.  A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 5.  CORRECTED DRAWINGS (as "replacement sheets") must (a)  including changes required by the Notice of Draftspers 1)  hereto or 2)  to Paper No./Mail Date  (b)  including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsal attached Examiner's comment regarding REQUIREMENT	e been received.  be been received in Application No. cuments have been received in this of this communication to file a rep MENT of this application.  itted. Note the attached EXAMINE as reason(s) why the oath or declar as be submitted. Son's Patent Drawing Review (PTO).  s Amendment / Comment or in the  .84(c)) should be written on the draw the header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIAL	Is national stage application from the sis national stage application from the sis national stage application from the sis national stage application from the requirements  ER'S AMENDMENT or NOTICE OF stration is deficient.  O-948) attached  Office action of swings in the front (not the back) of 1(d).  must be submitted. Note the
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material  /BO PENG/ Primary Examiner, Art Unit 1648	5. ☐ Notice of Informal 6. ☐ Interview Summa Paper No./Mail D 7. ☐ Examiner's Amen 8. ☐ Examiner's Stater 9. ☑ Other the office a	ry (PTO-413), Date dment/Comment ment of Reasons for Allowance

Application/Control Number: 10/750,184 Page 2

Art Unit: 1648

#### **DETAILED ACTION**

1. This application in the Patent and Trademark Office has been reassigned to examiner Bo Peng. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Bo Peng, Art Unit 1648.

2. Claims 142-153 and 157-164 are pending and under consideration in the application.

## Claim Rejections - 35 USC § 103

3. (**Prior Rejection- withdrawn**) The rejection of Claims 142-153, and 157-164 under 35 U.S.C. 103(a), as being unpatentable over Ratcliff (U.S. Patent 4,837,009), in view of Hellgren (U.S. Patent 4,963,491) and Karlstam (EP 0257003), **is withdrawn** in view of the decision of pre-appeal brief conference mailed on September 21, 2010.

#### Remarks

4. Claims 142-153 and 157-164 are allowed.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bo Peng, Ph.D. whose telephone number is 571-272-5542. The examiner can normally be reached on Tu-F, 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Zachariah Lucas can be reached on 571-272-0905. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/BO PENG/ Primary Examiner, Art Unit 1648